README File for 2010 Census Summary File 1 Delivered via FTP

Note: Users processing these FTP files in a Windows environment should read carefully the File Information section of this document.

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About the FTP Application

This FTP (File Transfer Protocol) application is intended for experienced users of census data, zip files, and spreadsheet/database software. It provides quick access for data users such as State Data Centers and news media needing to begin their analysis immediately upon data release. Due to the size of the files, the FTP user should have a fast file transfer capability. See Table 1. Estimated File Sizes on pages 4-5.

The FTP Directory

The FTP directory is at http://www2.census.gov/census_2010/04-Summary_File_1. When the 2010 Census Summary File 1 are added to each state's directory, it will contain a single zip package with the geoheader file, 47 data segments and a packing list which provides information about the file's creation and size. See below for more information on Segmented Data.

Users of the FTP application need to unzip the package after downloading, then import the data into the spreadsheet/database software of their choice for data analysis and table presentation. *We are unable to provide one-on-one support for applications of the data to specific spreadsheets or data base software.*

File Information

Once the package is unzipped, the files are in flat ASCII format. The geographic header file contains fixed fields while the data files are in comma-delimited format. Both the geographic header and the data files contain geographic linking fields. These files have been constructed in a LINUX environment. They use an ASCII linefeed, chr(10), to indicate a new record.

For successful use with many programs running in a Windows environment, these files need to be modified to use the ASCII carriage return/linefeed sequence, chr(13) + chr(10) as a record terminator. This is an easy step in the UnZIP process using any UnZIP software which offers the conversion option. Winzip for Windows, version 14.5 has been tested.

The resulting file will meet the ANSI MS-DOS/Windows standard used by Access 2003 and Access 2007 and other MS Windows-based programs. If the data are being processed in a LINUX environment, they can be unzipped using any standard Linux ZIP/UnZIP package.

Note to Users of Microsoft Access:

Due to the FieldSize property limitations within Microsoft Access, modifications to field types are required when importing the Geographic Header Record file and File01 through File47:

• All fields classified as numeric (N) should be imported as long integers.

• AREALAND and AREAWATR should be imported as text.

Failure to make these changes may result in missing data upon import.

Segmented Data

The data in the 2010 Census Summary File 1 and other 2010 Census summary files are segmented. This is done so that individual files will not have more than 255 fields, facilitating exporting into spreadsheet or database software. The data and the corresponding geographic information for an individual state are known as the file set. Because of the large size of the tables, the file set will be broken into 49 files: a geographic header record file and 47 data segment files and a packing list. Table 2 provides the file/table details. **In short, to get a complete set of the 2010 Census Summary File 1, users must download both files in the package.**

The files are as follows:

Geographic Header Record file
File01- File47 (see Table 2. File/Table Segmentation)

Table 2. File/Table Segmentation

Data file segment number	Number of data cells	Starting matrix number	Ending matrix number
1	1	P1	P1
2	6	P2	P2
3	194	P3	P9
4	239	P10	P14
5	245	P15	P30
6	254	P31	P49
7	251	P50	P12E
8	253	P12F	P17A
9	249	P17B	P28I

10	252	P29A	P29I
11	254	P31A	P34E
12	251	P34F	P38E
13	240	P38F	P39H
14	20	P39I	P39I
15	251	PCT1	PCT8
16	59	PCT9	PCT11
17	209	PCT12	PCT12
18	188	PCT13	PCT20
19	216	PCT21	PCT22
20	209	PCT12A	PCT12A
21	209	PCT12B	PCT12B
22	209	PCT12C	PCT12C
23	209	PCT12D	PCT12D
24	209	PCT12E	PCT12E
25	209	PCT12F	PCT12F
26	209	PCT12G	PCT12G
27	209	PCT12H	PCT12H
28	209	PCT12I	PCT12I
29	209	PCT12J	PCT12J
30	209	PCT12K	PCT12K
31	209	PCT12L	PCT12L
32	209	PCT12M	PCT12M
33	209	PCT12N	PCT12N
34	209	PCT12O	PCT12O
35	245	PCT13A	PCT13E
36	245	PCT13F	PCT19B
37	237	PCT19C	PCT20E
38	254	PCT20F	PCT22F
39	63	PCT22G	PCT22I
40	234	PCO1	PCO6
41	156	PCO7	PCO10
42	1	H1	H1
43	6	H2	H2
44	249	H3	H11F
45	255	H11G	H17C
46	126	H17D	H17I
47	74	HCT1	HCT4

The explanation below for linking the two data files requires specific location information about the geographic header. These are located in Chapter 2-How to use this Product, of the Technical Documentation http://www.census.gov/prod/cen2010/doc/sf1.pdf.

 A unique logical record number (LOGRECNO) in the geographic header is assigned to all files for a specific geographic entity; all records for that entity can be linked together across files. Additional identifying fields are also carried over from the geographic header file to the table files. The fields are: file identification (FILEID), state/U.S. abbreviation (STUSAB), and characteristic iteration (CHARITER).

The geographic header record layout is identical across all electronic data products from the 2010 Census. Some header fields that appear in both file types (geographic header and fileXX) are not used. For example, the characteristic iteration (CHARITER) field will be used in the 2010 Census

Summary File 2 data product but in the 2010 Census Summary File 1, it is always coded as 000.

File Record Layout

For a layout of the data table, see http://www.census.gov/prod/cen2010/doc/sf1.pdf, select Chapter 6, *Data Dictionary*.

Table 1. Estimated File Sizes

State	STUSAB	Zipped Estimate Mb	Unzipped Estimate Mb
01	AL	0.19	2.8
02	AK	0.03	.65
04	AZ	0.20	2.7
05	AR	0.25	2.2
06	CA	0.95	8.8
08	CO	0.17	2.3
09	CT	0.10	.92
10	DE	0.03	.33
11	DC	0.01	.11
12	FL	0.53	5.7
13	GA	0.38	3.4
15	HI	0.04	.42
16	ID	0.18	1.5
17	IL	0.61	5.6
18	IN	0.35	3.1
19	IA	0.29	2.7
20	KS	0.15	2.7
21	KY	0.22	2.0
22	LA	0.27	2.4
23	ME	0.09	.89
24	MD	0.20	1.9
25	MA	0.21	1.9
26	MI	0.44	4.1
27	MN	0.35	3.3
28	MS	0.13	2.0
29	MO	0.45	4.0
30	MT	0.16	1.4
31	NE	0.10	2.1
32	NV	0.11	1.0

33	NH	0.06	.61
34	NJ	0.23	2.2
35	NM	0.21	1.9
36	NY	0.50	4.7
37	NC	0.32	3.6
38	ND	0.18	1.6
39	OH	0.50	4.5
40	OK	0.20	3.1
41	OR	0.25	2.2
42	PA	0.43	5.2
44	RI	0.03	.35
45	SC	0.24	2.1
46	SD	0.12	1.2
47	TN	0.32	2.8
48	TX	1.16	10.1
49	UT	0.15	1.3
50	VT	0.04	.44
51	VA	0.37	3.3
53	WA	0.26	2.4
54	WV	0.17	1.5
55	WI	0.34	3.1
56	WY	0.10	.91
72	PR	0.12	1.2
TOTAL		13.49	133.4